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- 1 [Breaking the silos: access and service convergence over the mobile](#)
[Victor C.M. Leung, Terrence Wong, Peyman TalebiFard](#)
 October 2008 **MSWIM '08: Proceedings of the 11th international symposium on analysis and simulation of wireless and mobile systems**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (716.88 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 134, Citations

Conventional network services operate like silos in that a specific set of services is offered over a specific type of access network. As access networks evolve towards IP-based packet access, it becomes attractive to break these "service silos".

Keywords: IP multimedia subsystem, convergence, heterogeneous access, service oriented architecture

- 2 [A new architecture for 3G and WLAN integration and inter-system handover management](#)

[S. Mohanty](#)

November 2006 **Wireless Networks**, Volume 12 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: Pdf (405.31 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 263, Citations

WLAN has strong potential to provide a perfect broadband complement to mobile systems. This has raised much interest in their integration. In this paper, we propose a new architecture using the Network Interoperating Agent (NIA), and Integrated

Keywords: handover failure probability, integration of 3G wireless systems, inter-system handover

- 3 [Signalling analysis in integrated 4G networks](#)
[Hakima Chaouchi, Ivan Armuelles, Ivan Ganchev, Máirtín O'Droma, Nino K. Nikolic](#)
 January 2006 **International Journal of Network Management**, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: Pdf (517.12 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

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Scarce radio resources and the ambition to increase the number of mobile communication systems from a guarantee of service are pushing mobile communication systems from non-service convergent 2G and convergent-service 2.5G and 3G wireless

4 [Integrating heterogeneous wireless technologies: a cellular aided mobile network \(CAMA\)](#)

[Bharat Bhargava](#), [Xiaoxin Wu](#), [Yi Lu](#), [Weichao Wang](#)

August 2004 **Mobile Networks and Applications**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (365.14 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 65, Citation

A mobile ad hoc network is a collection of wireless terminals that can be Its deficiencies include limited wireless bandwidth efficiency, low throughput and weak security. Integrating it with a well-established cellular ...


Keywords: ad hoc networks, cellular networks, heterogeneous network service, security

5 [Introduction of the asymmetric cryptography in GSM, GPRS, UMTS, key infrastructure integration](#)

[Constantinos F. Grecas](#), [Sotirios I. Maniatis](#), [Iakovos S. Venieris](#)

April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2

Publisher: Kluwer Academic Publishers


Full text available:  [Pdf](#) (107.24 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 103, Citation

The logic ruling the user and network authentication as well as the data GSM architecture is characterized, regarding the transferring of the parameters in these processes, by transactions between three nodes of the system,


Keywords: PKIs, PLMNs, asymmetric cryptography

6 [Cellular universal IP: a low delay mobility scheme based on universal](#)

 [Patrick P. Lam](#), [Soung C. Liew](#), [Jack Y. B. Lee](#)

October 2005 **MSWiM '05: Proceedings of the 8th ACM international symposium on analysis and simulation of wireless and mobile systems**


Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (2.52 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 22, Citation

The concept of care-of-address (CoA) is a major cause of excessive handover Mobile IPv6 for real time multimedia traffic. Many schemes eliminate the micro-mobility scale, but leave the macro-mobility unsolved. This paper

Keywords: IP mobility, handoff, macro-mobility, micro-mobility


- 7 [100% organic: design and implementation of self-sustaining cellular](#)
 Nathanael Thompson, Petros Zerfos, Robert Sombrutzki, Jens-Peter Redlic
 February 2008 **HotMobile '08**: Proceedings of the 9th workshop on Mobile
 and applications

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (939.85 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 76, Citation

A new model for developing cellular-like networks is emerging in the market where users own and install part of the infrastructure and share it with other cellular networks. The network grows "organically" as more end users join and contribute to it.

- 8 [Flexible resource allocation and composition across gsm/3g network](#)
 Mohammad Al-Fares, Martin Johnsson, Per Johansson, Amin Vahdat
 August 2008 **MobiArch '08**: Proceedings of the 3rd international workshop
 evolving internet architecture

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (503.14 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 99, Citation

A significant challenge facing wireless and mobile networking is seamless connectivity. As expected, no single network operator and no single technology can dominate the wireless access landscape. Instead, heterogeneity and change characterize the landscape.


Keywords: mobile roaming, network composition, resource allocation

- 9 [Enhanced privacy and authentication for the global system for mobile communications](#)

Chii-Hwa Lee, Min-Shiang Hwang, Wei-Pang Yang

July 1999 **Wireless Networks**, Volume 5 Issue 4


Publisher: Kluwer Academic Publishers

Full text available:  Pdf (204.97 KB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 144, Citation


The Global System for Mobile Communications (GSM) is widely recognized as the digital mobile network architecture. Increasing market demands point to the relevancy of security-related issues in communications. The security requirements for GSM are discussed.

- 10 [A smartcard for authentication in WLANs](#)

 Marc Loutrel, Pascal Urien, Guy Pujolle

October 2003 **LANC '03**: Proceedings of the 2003 IFIP/ACM Latin America conference
 Towards a Latin American agenda for network research

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (333.05 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 86, Citation

Wireless LANs based on the IEEE 802.11b standard have spread very quickly in a few years. Nevertheless a lot of security issues remain and stop its deployment in corporations. One of the most important issues is the authentication of

Keywords: authentication, smartcard, wireless LANs

11 [Virtual operator based AAA in wireless LAN hot spots with ad-hoc networks](#)



Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu

June 2002 **SIGMOBILE Mobile Computing and Communications Review**

Publisher: ACM

Full text available: [Pdf](#) (180.11 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 63, Citation

Sound and effective authentication, authorization and accounting (AAA) for convenient and secure mobile wireless accesses are of great importance due to the increased popularity and business opportunities in public wireless LAN hot spots.

12 [Low-cost communication for rural internet kiosks using mechanical back-haul](#)



A. Seth, D. Kroeker, M. Zaharia, S. Guo, S. Keshav

September 2006 **MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (733.95 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 191, Citation

Rural kiosks in developing countries provide a variety of services such as birth and death certificates, electricity bill collection, land records, email services, and consulting on medical and agricultural problems. Fundamental to a kiosk is a low-cost communication system.

Keywords: delay tolerant networks, low cost, mechanical back-haul, rural communication, system design

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